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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/555,384	01/16/2007	Hisao Kitano	050309	4633
	7590	EXAMINER		
1420 K Street, N.W.			KRISHNAN, GANAPATHY	
Suite 400 WASHINGTON, DC 20005			ART UNIT	PAPER NUMBER
			1623	
			MAIL DATE	DELIVERY MODE
			09/04/2009	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)			
	10/555,384	KITANO ET AL.			
Office Action Summary	Examiner	Art Unit			
	Ganapathy Krishnan	1623			
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D  - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION (36(a). In no event, however, may a reply be time will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status					
1) ☐ Responsive to communication(s) filed on <u>03 N</u> 2a) ☐ This action is <b>FINAL</b> . 2b) ☐ This 3) ☐ Since this application is in condition for allowa closed in accordance with the practice under <u>B</u>	s action is non-final. nce except for formal matters, pro				
Disposition of Claims					
4)  Claim(s) <u>1-29</u> is/are pending in the application 4a) Of the above claim(s) is/are withdra 5)  Claim(s) is/are allowed. 6)  Claim(s) is/are rejected. 7)  Claim(s) is/are objected to. 8)  Claim(s) <u>1-29</u> are subject to restriction and/or	wn from consideration.				
Application Papers					
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) accomposed applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Examine 11.	epted or b) objected to by the E drawing(s) be held in abeyance. See tion is required if the drawing(s) is obj	e 37 CFR 1.85(a). sected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No.</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>					
Attachment(s) 1) ☑ Notice of References Cited (PTO-892)	4) ☐ Interview Summary	(PTO-413)			
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	5) Notice of Informal P	nte			

## **DETAILED ACTION**

## Election/Restrictions

Restriction is required under 35 U.S.C. 121 and 372.

This application contains the following inventions or groups of inventions that are not so linked as to form a single general inventive concept under PCT Rule 13.1.

In accordance with 37 CFR 1.499, applicant is required, in reply to this action, to elect a single invention to which the claims must be restricted.

Group I, claim(s) 1, 3-10, 11(in part), 12 (in part), 14, 15 (in part) 16-17, 18 (in part) and 22 (in part) and 29, drawn to a chitin oligomer composition and/or chitosan oligomer composition having fluorine atom content and a process for preparing the said composition.

Group II, claim(s) 19-21, 22 (in part), 23, 24 (in part) and 25-28, drawn to a process for preparing chitin oligomer composition and/or chitosan oligomer composition by adding hydrohalogenated acid other than HF.

Group III, claim 2, drawn to a chitin oligomer composition and/or chitosan oligomer composition having calcium atom content.

The inventions listed as Groups I-III do not relate to a single general inventive concept under PCT rule 13.1-13.3. PCT 13.1 states the international application shall relate to one invention only or to a group of inventions linked as to form "a single general inventive concept". PCT 13.2 indicates that such unity of invention is fulfilled only when there is a "technical relationship" among those inventions involving one or more of the same or corresponding "special technical feature".

The technical feature linking claims in Group I appear to be chitin oligomer composition and/or chitosan oligomer composition <u>having fluorine atom content.</u>

However, Bosso et al (Carbohydrate Research, 1986, 156, 57-68; Document CA in IDS of 3/14/2008) teach compositions containing chitin and fluoride (page 67, see section on Chitin fluorolysis).

Thus, the technical feature linking the inventions of Groups I-III does not constitute a special technical feature as defined by PCT Rule 13.2, as it does not define a contribution over the prior art.

The special technical feature of Group I is considered to be a product containing fluorine.

The special technical feature of Group II is considered to be a method for making a product using a hydrohalogenated acid other than HF.

The special technical feature of Group III is considered to be a product containing calcium atom.

Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ganapathy Krishnan whose telephone number is 571-272-0654. The examiner can normally be reached on 8.30am-5pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Shaojia A. Jiang can be reached on 571-272-0627. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 10/555,384 Page 4

Art Unit: 1623

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/Ganapathy Krishnan/ Examiner, Art Unit 1623

/Shaojia Anna Jiang/ Supervisory Patent Examiner, Art Unit 1623